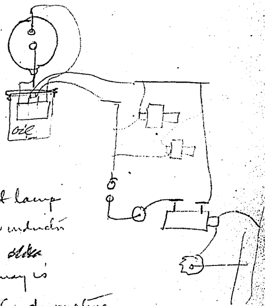
Notebook, N-96-06-21

This notebook was used during June 1896. All entries are by Edison. The book contains notes and drawings relating to the telephone, hearing aids, fluorescent lamps, and the x-ray. Also included is a list of compounds tested for fluorescence. The pages are unnumbered. Approximately 20 pages have been used.

June 21/96



Each florsct lamp
has its own inductn
Coil in oil ~~[illegible]~~
Small-primary is
Energized by disruptive
discharge -
a number can be placed in,
multiple arc or in series
(1e) primary

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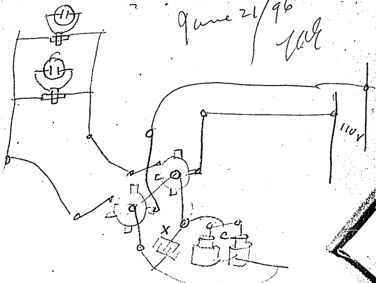
TAE



X of 110 volt C of induction

Both Wheels on one shaft, Condenser or Leyden jars thrown on line & charged then thrown through primaries of the coils working the various flor Lamps in Multiple arc or Series —

Chalk Telephone as self vibrator

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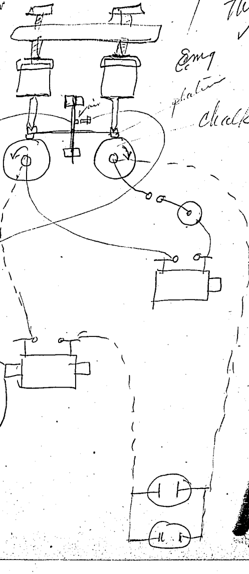
Emg
platina
Chalk
pair

CN
12.14

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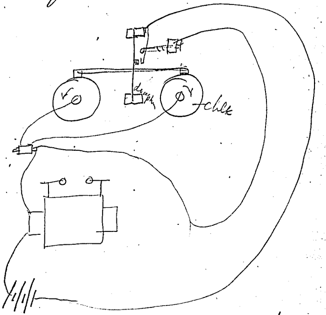

Automatic induction coil break
using Chalk Cylinder

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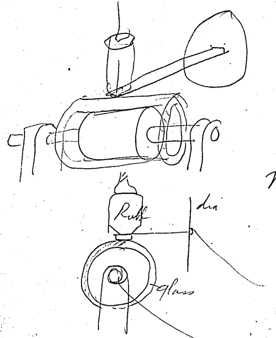
Rubb
dia
glass

Making this

Leyden jar in place
Chalk — Inductn Coil —

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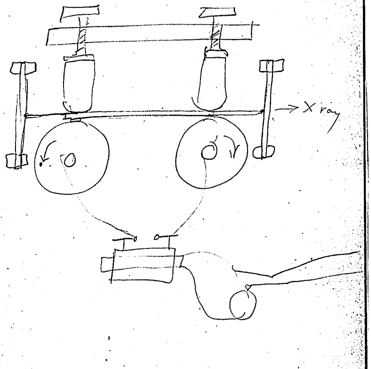
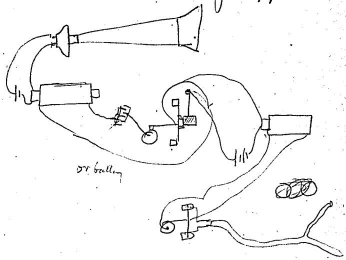
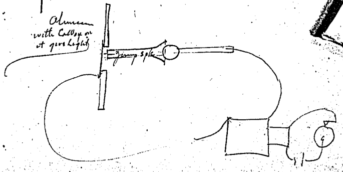


June 23/96

Deaf apparatus

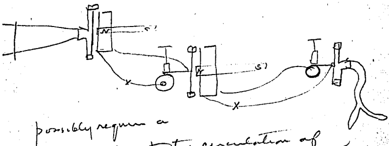


Xray


Alumin
with Celloid or
it gives light
Jump spk

For telephone instead Carbon,

Nitrides of the metals,
Magnetite,
Sulphides,
Arsenides
phosphides



possibly require a
Condenser at X to stop circulation of
Capillary current or a dry battery
Number of Turns on core very great
to give high Emf = No 38 @ 40 wire
fine steel wire magnetized core

Try oxalate Lime for X ray fluorescence

How would stearate Lime do for
Condenser plate separator pbly
high spec ind capacity -
Some of the stearates of heavy
metals might be very strong -
possibly Oxalate Calcium mixed
with Stearic acid or paraffine
shellac etc, Linoleate Calcium

Try dropping from pipette
into thin german glass
beaker, ~~a~~ solution which will
form precipitates, Sound waves
like X may proceed in
Space —— See next p

Oxalic acid. }
acetate Lime – }

Cyanide K
acetate Lim

CyK. Chl Ca

CyK Ba cl

CyK Sr Cl.

CyK ~~Lime [illegible]~~ Nitrate Ca

$NaWO_3$ — Nitrate Ca
" acetate Ca

Least abundant
deposit for x in Cell –

Experiments on 25 different Molybdates Tungstates etc of the Elements made by fusion & sealed inside bulbs & Exhausted to make fluorescent lamps

No 1 - Works about same as Reg $CaWO_4$ - hardly as bright I think - bluish tinge to crystals & light, used 6 Lamps & High speed break Bergman Coil -

No 2 - Dont fluoresce in the
slightest degree — no x ray

No 3 Little better light than
No 1 - not so good as
regular - works and appears
the same as Reg — no x ray

No 4 = No fluorescence
Crookes striae, hard to
work no x ray -
no light to amount to
anything - ng -

No 5 = Works like Reg
not better than No 1
no phenomena — no X ray

No 9 good as Reg—
no phenom—

No 10 – no fluor
ng no phenom

No 11 flores little
ng

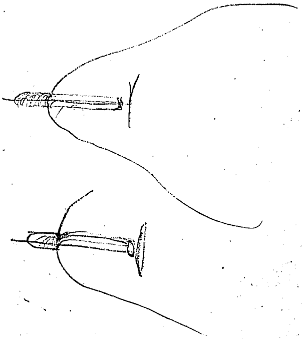
No 12 – flor little
no phenom—

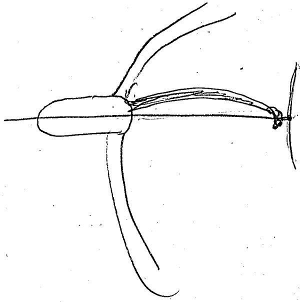
New Lamp on 4 o'clk & 5 min
There was Vac in ~~pump~~
bulb = got solid - heated bulb
and seal. in put H in
at 4.45. Didnt Light Elec until
H was in then 15 Lamps
on lighted it a little say
4 or 5 ~~times~~ when Vac
low — when nearly
solid closed current
on it twice for 3 sec Each
then let it run solid
again it broke tube
yellow flo, crimson &
crimson streaks on

side of bulb, Centre of
bulb highly Crimson—

got Electrodes Red
hot ~~[illegible]~~ 2 or 3 times—
I don't strike in Center but
off towards one Edge
gave yellow no cathodes
Crimson Center bulb,
then gave it 6" Hydrogen
at 5.05—
got sharp shadow of
hand faint bones after
working 5 minutes 1st Lamp
Sealed off then by working Came
up splendid best yet—

5.55 Sealed off





Expon Ure opperator 2528

172
20
3440

lbs

108
16
648
108
1728 (1.72
1000
728
7000
280

21
62 1000) 1728 (108
42
126
12) 1302 (108
1202
196

1.72
30
60

144

144) 3440 (24
288
560